

## ABSTRACT

[0064] The present invention provides for a real-time communication channel between a portable healthcare device and a remote information site. The health information system allows for transfer operations to be performed on-line and at any time. The health-related information is transmitted by one end of a network pathway and travels to a second end of the pathway. Along the pathway, the information is progressively intercepted by each of a series of segments having an interface to prepare the health-related information with appropriate data for reading at the next segment along the network pathway. The information is immediately processed and relayed back into the network towards its destination. In one embodiment, back-end services are provided for front-end applications occurring at a portable healthcare device, such as processing of raw health-related information generated at the portable healthcare device. In addition, other aspects of the present invention relating to the communication of health-related information between disparate segments to transfer the information.